

ADDITIONS TO OUR KNOWLEDGE OF THE FLOWERING
PLANTS OF H. E. H. THE NIZAM'S DOMINIONS,
HYDERABAD, DECCAN.

BY

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(With one plate).

DICOTYLEDONS.

It is now nearly three years since a contribution was made to the pages of this *Journal*¹. During this period a number of collections have been made from several districts, *viz.*, Mulug, Sirnapalli, Vikarabad, Amrabad (including Mananur and Farahabad), Adilabad, and from the suburbs of Hyderabad city. This report deals with only such material as has been carefully identified, and later on compared with the type specimens at the Sibpur and Dehra Dun Herbaria. The families and species dealt with number 53 and 170 respectively.

The author is now in a position to say something about the types of forest, and the dominant species met with in the above-mentioned districts. There is really no typical rain-forest in the Dominions. An intermediate form between rain- and monsoon-forest is met with, *viz.*, near Salvoy in the Mulug Talukha of Warangal District (Fig. 1), near Mananur at Pedda Omamaheshwaram, in the vicinity of Kuntala (in Both Talukha of Adilabad District), and along the Ajanta Hills (Fig. 2). The dominant species common to most of these forests are *Tectona grandis* Linn., *Olex scandens* Roxb., *Erythroxylon monogynum* Roxb., *Terminalia tomentosa* W. and A., *Balanites Roxburghii* Planch., *Buchanania latifolia* Roxb., *Semecarpus Anacardium* Linn., *Cleistanthus collinus* Benth., *Bombax malabaricum* DC., *Diospyros tomentosa* Roxb., *Diospyros Melanoxylon* Roxb., *Chloroxylon Swietenia* DC., *Phyllanthus Emblica* Linn., *Aegle Marmelos* Correa, *Strychnos potatorum* Linn., and others. *Strychnos Nux-vomica* Linn. is, however, very common in the Warangal, Karimnagar and Adilabad Districts. *Dendrocalamus strictus* Nees is common in hilly regions. *Calamus Rotang* Linn. is found only in the Warangal District in Mulug below the Ramappa tank (Fig. 3).

The second type of forest is the open-forest which is common. The dominant species in such forests are *Boswellia serrata* Roxb., *Bassia latifolia* Roxb., *Tectona grandis* Linn. of stunted growth, species of *Gardenia* and *Randia*, *Lagerstroemia parviflora* Roxb., *Anogeissus latifolia* Wall., *Feronia Elephantum* Correa, and others.

¹ 'A further contribution to some of the common flowering plants of the Hyderabad State; their distribution and economic importance—Dicotyledons.' (vol. xi, No. 2, Sept. 1938).

The last type of forest met with in the Dominions is the thorn-forest or scrub-jungle. It is common on laterite and on rocky soil. Amongst the trees, members of the Leguminosae family form gregarious patches. Species of *Zizyphus*, *Gardenia*, *Wrightia* and *Grewia*, *Holarrhena antidysenterica* Wall. and *Anona squamosa* Linn. are common. Amongst low shrubs *Cassia auriculata* Linn. is very wide-spread and dominant.

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I. RANUNCULACEAE.

1. *Naravelia zeylanica* DC. Syst. 1. 167; H. F. B. I., i, 7; Dalz. & Gibs. i; Trim. F. Ceyl. i, 2; Watt. Dict. Econ. Prod. I., V, 317; Talb. For. F. Bomb. Pres., I, 7, Cooke. F. Pres. Bomb., I, 4.

Habitat.—Found in moist forest on the banks of *Dayyum Murgu* near Salvoy in Mulug (Warangal District).

Flowering Season.—Nov.-Dec.

II. DILLENACEAE.

2. *Dillenia indica* Linn. Sp. Pl. 535, H.F.B.I., i, 36; Talb. For F. Bomb. Pres., I, 10; Watt. Dict. Econ. Prod. I., iii, 113; Cooke F. Pres. Bomb., I, 6.

Syn.—*D. speciosa*, Thunb. in Trans. Linn. Soc., I (1791), 200; Dalz. & Gibs, 2; Wt. Ic., 823.

Indian Names.—Chalta, Girnar (Hindi); Motakarmal (Mar.); Kalinga, Peddakalinga (Tel.); Chalta (Beng.); Bettakanigala (Canarese); Chalita (Malayalam).

Habitat.—Cultivated in gardens.

Flowering season.—May-June.

Uses.—Medicinal (Kirtikar).

III. ANONACEAE.

3. *Saccopetalum tomentosum* H. f. & Thos. Fl. Ind. (1855); H.F.B.I., i, 88; Dalz. & Gibs., 4; Talb. For. F. Bomb. Pres., i, 31; Watt. Dict. Econ. Prod. I, VI, Pt. 2, 381; Cooke. F. Pres. Bomb., i, 16.

Habitat.—Found in the Anantgiri forest (Vikarabad).

Flowering season.—April-June, fruits in Aug.

IV. MENISPERMACEAE.

4. *Tinospora malabarica* Miers Contrib. iii (1864), 32; H.F.B.I., i, 96; Dalz. & Gibs., 5; Trim. F. Ceyl., i, 38; Talb. For. F. Bomb. Pres., i, 36; Cooke. F. Pres. Bomb., i, 18.

Syn.—*Cocculus malabaricus* DC. Syst., i, 518.

Indian Names.—Giloe, Gulancha, Gurch (Hindi); Gulvel (Mar.); Potchindil (Tam.); Padmagaluncha (Beng.).

Habitat.—Common in most forests.

Flowering season.—Collected in Feb.

Uses.—Medicinal. (Kirtikar).

5. **Cissampelos Pareira** Linn. Sp. Pl. (1753), 1031; H.F.B.I., i, 103; Dalz. & Gibs., 5; Trim. Fl. Ceyl., i, 46; Talb. For. F. Bomb. Pres., i, 45; Cooke. F. Pres. Bomb., i, 22; Watt. Dict. Econ. Prod. I., ii, 327.

Syn.—*Cissampelos convolvulacea* Willd. Sp. Pl., V, 863.

Indian Names.—Akandi, Dakhnir-bissi, Harjeuri (Hindi); Ambashtha, Brihat-tikta (Sans.); Padavali, Pharmul (Mar.); Pahadmul, Pahadvel (Bomb.); Appatta (Tam.); Adivibankatige (Tel.).

Habitat.—First collected in the Mulug forest (Warangal District), also subsequently collected at Ooperpalli and elsewhere.

Flowering season.—April-Sept.

Uses.—Medicinal (Kirtikar).

V. BERBERIDACEAE.

6. **Mahonia nepalensis** DC. Syst. ii, 21.

Syn.—*Berberis nepalensis* Spreng. Syst. ii, 120; H.F.B.I., i, 109.

Indian Names.—Amudanda, Chiror (Punjab); Gurm, Haldia (Garhwal); Chatri (Nepal).

Habitat.—Native of Temperate Himalaya. Cultivated in the Botanic Garden, Osmania University.

Flowering season.—Collected in flower in March.

Uses.—Medicinal (Kirtikar).

VI. CRUCIFERAE.

7. **Lepidium sativum** Linn. Sp. Pl. (1753), 644 (The Cress), H.F.B.I., i, 159; Watt. Dict. Econ. Prod. I., iv, 627; Cooke. F. Pres. Bomb., i, 35.

Indian Names.—Half, Hurf, Harfulabaz (Arab.); Chaunsar, Halim, Hurf (Hindi); Rukhame ispanda (Pers.); Chandrik (Sans.); Aliverai (Tamil); Adala vitulu (Tel.); Halim (Urdu).

Habitat.—Commonly cultivated.

Flowering season.—March and April.

Uses.—A good pot-herb, also medicinal.

VII. CAPPARIDACEAE.

8. **Cleome felina** Linn. f. Suppl., 300; H.F.B.I., 170.

Syn.—*Polanisia felina* DC. Prodr. i, 242.

Indian Names.—Ariavila (Malayalam).

Habitat.—Wild throughout the Dominions.

Uses.—Medicinal.

9. **Maerua arenaria** H. f. & T.; H.F.B.I., i, 171; Trim. F. Ceyl., i, 58.

Syn.—*M. ovalifolia* Cambess. in Jacquemont, Voy. Bot. (1844), 23, t. 24; Talb. For. F. Bomb. Pres., i, 48; Cooke. F. Pres. Bomb., i, 41. *Niebuhria oblongifolia* Royle, Ill. Himal. Bot., 73; Dalz. & Gibs., 8. *Capparis heteroclita* Roxb. F. Ind., ii, 570.

Indian Names.—Bhumi-chakkarai (Tam.); Bhuchakramu (Tel.).

Habitat.—Collected from Mulug forest.

Flowering season.—Nov.-Dec.

Uses.—Medicinal.

10. **Crataeva religiosa** Forst. f. Prodr. (1786), 35; H.F.B.I.; i, 172; Talb. For. F. Bomb. Pres., i, 64; Cooke. F. Pres. Bomb., i, 42; Watt. Dict. Econ. Prod. I., ii, 583.

Indian Names.—Varvunna (Hindi); Nirvala, Kamla, Waiwurna (Mar.).

Habitat.—Planted near temples. Apparently wild.

Flowering season.—March-April.

Uses.—Useful in turnery.

11. *Cadaba indica* Lamk. Encyc., i (1783), 544; H.F.B.I., i, 172; Trim. F. Ceyl., i, 60; Talb. For. F. Bomb. Pres., i, 50; Cooke. F. Pres. Bomb., i, 43; Dalz. & Gibs., 9.

Syn.—*Stroemeria tetrandra* Vahl., Roxb. F. Ind., ii, 78.

Habitat.—Collected from Mulug. Grows in dry situations.

Flowering season.—Nov.-Feb.

VIII. BIXACEAE.

12. *Bixa Orellana* Linn. (The Arnatto) Sp. Pl. (1753), 512; H.F.B.I., i, 190; Roxb. F. Ind., ii, 31; Dalz. & Gibs. Suppl., 5; Wight iii, t, 17.

Indian Names.—Japhar, Kesari, Shendri (Mar.); Kuppamannal (Malayalam); Arnuttu, Kesari (Canarese); Amudadaram (Tamil); Jabura (Tel.); Jolandhar (Beng.).

Habitat.—An American plant, cultivated in the Botanic Garden, Osmania University.

Flowering season.—Sept.

Uses.—The pulp surrounding the seeds gives a flesh coloured dye, used for colouring butter and for dyeing silk fabrics. Bark yields a good cordage. The West Indians rub two pieces of wood to produce fire. Medicinal.

IX. POLYGALACEAE.

13. *Polygala elongata* Klein in Willd. Sp. Pl., iii, 879; H.F.B.I., i, 203; Cooke. F. Pres. Bomb., i, 60.

Syn.—*P. campestris* Dalz. in Hook. Kew Journ. Bot., ii (1850), 40; Dalz. & Gibs., 13.

Habitat.—Wild at Adigmet and elsewhere in the Dominions.

Flowering season.—Sept.-Nov.

X. CARYOPHYLLACEAE.

14. *Polycarpæa corymbosa* Lam. Ill., ii (1793), 129; H.F.B.I., i, 245; Wt. Ic. t. 712; Cooke. F. Pres. Bomb., i, 66; Dalz. & Gibs., 16; Trim. F. Ceyl., i, 88.

Indian Names.—Bhistta (Sans.); Nilaisedachi (Tam.); Bommasari, Rajuma (Tel.).

Habitat.—Common throughout the Dominions.

Flowering season.—Oct.-Dec.

Uses.—Medicinal.

XI. MALVACEAE.

15. *Hibiscus vitifolius* Linn. Sp. Pl. (1753), 696; H.F.B.I., i, 338; Dalz. & Gibs., 20; Trim. F. Ceyl., i, 154; Cooke. F. Pres. Bomb., i, 109.

Indian Name.—Van-kapas (Mar.).

Habitat.—Collected from Humpii ruins, Raichur district. Not common.

Flowering season.—Feb.

16. *Hibiscus cancellatus* Roxb. Hort. Beng., 51; F.I., iii, 201; H.F.B.I., i, 342.

Habitat.—Collected from Sirnapalli forest (Nizamabad District). It is strange that this plant which is not found either towards Bombay or towards Madras, has been collected from this place.

Flowering season.—July-Aug.

17. *Hibiscus schizopetalus* Hook. f.; Bailey, Ency. Hort., 1487.

Habitat.—Cultivated as an ornamental shrub.

Flowering season.—Throughout the year.

18. *Urena lobata* Linn. Sp. Pl. (1753), 692; H.F.B.I., i, 329; Dalz. & Gibs., 18; Trim. F. Ceyl., i, 147; Cooke. F. Bomb. Pres., i, 100; Watt. Dict. Econ. Prod. I., vi, pt. 4, 212.

Indian Names.—Bachata, Bachita (Hindi); Otte (Canarese); Rantupkadu (Mar.); Van-bhendi (Bomb.); Vanachenda (Sans.); Ottatti (Tam.); Peddabenda (Tel.).

Habitat.—Common; first collected from Nizamabad.

Flowering season.—Oct.-Dec.

Uses.—Medicinal.

XII. STERCULIACEAE.

19. *Eriolæna Hookeriana* W. & A. Prodr., i, 70; H.F.B.I., i, 370; Cooke. F. Pres. Bomb., i, 131; Watt. Dict. Econ. Prod. I., iii, 265.

Indian Names.—Bute, Bother (Bomb.)

Habitat.—Collected from the Mulug forest.

Flowering season.—March-April.

20. *Waltheria indica* Linn. Sp. Pl. (1753), 673; H.F.B.I., i, 374; Dalz. & Gibs., 23; Cooke. F. Pres. Bomb., i, 135; Gamble. F. Pres. Mad., i, III.

Habitat.—Common everywhere in waste places, on roadsides, and as undergrowth in forests.

Flowering season.—Aug.-Oct.

21. *Melochia corchorifolia* Linn. Sp. Pl. (1753), 675; H.F.B.I., i, 374; Cooke. F. Pres. Bomb., i, 134.

Syn.—*Riedlea corchorifolia* DC. Prodr. i, 491; Dalz. & Gibs., 24.

Indian Names.—Ganugapindikura, Sittanta kura (Tel.); Pinnakkuppunda, Punnakkukkirai (Tam.); Seruvuram (Malayalam); Tikidkra (Beng.).

Habitat.—A widely spread weed, common at Adigmet and elsewhere.

Flowering season.—Collected in October.

Uses.—Medicinal (Kirtikar).

XIII. TILIACEAE.

22. *Grewia aspera* Roxb. Hort. Beng., 42; Fl. Ind., ii, 591.

Syn.—*Grewia abutilifolia* Juss. in Ann. Mus. iv, 92; H.F.B.I., i, 390; Dalz. & Gibs., 26; Cooke. F. Pres. Bomb., i, 144.

Habitat.—Common in Sirnapalli forest as an undergrowth in shady situations.

Flowering season.—June-July.

XIV. MALPIGHIACEAE.

23. *Banisteria laurifolia* Linn. Sp. Pl. ed. ii, 611.

Habitat.—Cultivated.

Flowering season.—Jan.-April.

XV. OXALIDACEAE.

24. *Biophytum sensitivum* DC. Prodr. i (1824), 690; H.F.B.I., i, 436; Dalz. & Gibs., 42; Cooke. F. Pres. Bomb., 167; Gamble. F. Pres. Mad., i, 133.

Indian Names.—Lajalu, Lakhshana, Zarer (Hindi); Jalapushpa (Sans.); Jharera, Ladjiri (Mar.); Jhalai (Beng.).

Habitat.—Cultivated.

Uses.—Medicinal (Kirtikar).

XVI. CELASTRACEAE.

25. *Celastrus paniculata* Willd. Sp. Pl., i, 1125; Roxb. Fl. Ind., i, 621; Dalz. & Gibs., 47; Wt. Ill. t., 72; Ic. t., 158.

Indian Names.—Malkakni, Malkamni, Malkangni (Hindi); Kangani, Malkangani (Mar.); Bavanji, Malkanguni, Maneru (Tel.); Kangli, Kangondi (Canarese); Lataphatakai, Malkangni (Bomb.); Sankhu (Punjab).

Habitat.—Common. First collected from the Sirnapalli forest (Nizamabad District).

Flowering season.—July-Aug.

Uses.—Medicinal.

26. **Gymnosporia Rothiana** M. Laws. l. c. 620; H.F.B.I., i, 620; Cooke. F. Pres. Bomb., ii, 232.

Syn.—*Celastrus Rothiana* Wt. & Arn. Prodr., 159; Dalz. & Gibs., 47 & 318.

Indian Name.—Yenkli (Bomb.).

Habitat.—Common throughout the Dominions.

Flowering season.—April-June.

XVII. VITACEAE.

27. **Vitis repanda** Wt. & Arn. Prodr. (1834), 125; H.F.B.I., i, 648; Trim. F. Ceyl., i, 292; Cooke. F. Pres. Bomb., ii, 251; Talb. For. F. Bomb. Pres., i, 312.

Syn.—*Cissus repanda* Vahl. Symb., iii, 18; Dalz. & Gibs., 39.

Indian Name.—Gendal (Bomb.).

Habitat.—Common in moist forest. First collected from Mulug forest (Warangal District).

Flowering season.—March-April.

XVIII. ANACARDIACEAE.

28. **Rhus mysurensis** Heyne, ex Wt. & Arn. Prodr. (1834), 1172; Cooke. F. Pres. Bomb., ii, 272; Talb. For. F. Bomb. Pres., i, 347; Watt. Dict. Econ. Prod. I., vi, Pt. i, 497.

Indian Names.—Amani, Amoni (Bomb.).

Habitat.—Very common throughout the Dominions in dry situations, and in scrub jungle.

Uses.—Bark used in tanning. Wood is employed in fuel (Watt).

29. **Schinus molle** Linn. Sp. Pl. 388.

The so-called Weeping Willow of Nursery men.

Habitat.—A native of Tropical America. Cultivated.

Flowering season.—Dec.-Feb.

XIX. LEGUMINOSAE.

30. **Heylandia latebrosa** DC. Mem. Leg. (1825), 201; H.F.B.I., ii, 65; Cooke. F. Pres. Bomb., ii, 291; Dalz. & Gibs., 54.

Indian Name.—Godhadi (Bomb.).

Habitat.—Very common throughout the Dominions. First collected at Adigmet.

Flowering season.—March-June.

31. **Crotalaria hirsuta** Willd. Sp. Pl. iii, 978; Roxb. F. Ind. ii, 270; H.F.B.I., ii, 68; Gamble. F. Pres. Mad., ii, 293.

Syn.—*C. dichotoma* Heyne, ex Roth, Nov. Sp., 340.

Habitat.—Common at Adigmet.

Flowering season.—Collected in Sept.

32. **Crotalaria pusilla** Heyne, ex Roth, Nov. Pl. Sp. (1821), 335; H.F.B.I., ii, 70; Cooke. F. Pres. Bomb., ii, 296; Gamble. F. Pres. Mad., ii, 296.

Habitat.—Like the last species common at Adigmet.

Flowering season.—Sept.-Oct.

33. **Crotalaria albida** Heyne, ex Roth, Nov. Pl. Sp. (1821), 333; H.F.B.I., ii, 71; Cooke. F. Pres. Bomb., ii, 295.

Syn.—*Crotalaria punctata* Grah. in Wall. Cat. 5401.

Habitat.—Common in the Dominions.

34. *Crotalaria verrucosa* Linn. Sp. Pl. (1753), 715; H.F.B.I., ii, 77; Cooke. F. Pres. Bomb., ii, 299; Dalz. & Gibs., 55; Trim. F. Ceyl., ii, 15; Watt. Dict. Econ. Prod. I., ii, 614.

Indian Names.—Banshana, Jhunjunia (Hindi); Ghagari (Mar.); Dhavani, Shanapushpi (Sans.); Ghelegherinta (Tel.).

Habitat.—Common at Adigmet.

Flowering season.—Oct.-Nov.

Uses.—Medicinal (Kirtikar).

35. *Crotalaria juncea* Linn. Sp. Pl. (1753), 714; H.F.B.I., ii, 79; Cooke. F. Pres. Bomb., ii, 301.

Indian Names.—Ghagahi, Patashana, Shanahuli (Hindi); Son (Pers.); Ghagharu, San, Tag (Mar.); Dhanahari, Sana (Sans.); Chanaka, Sanam (Malayalam); Chanai, Kuttiram (Tam.); Janumu, Gilaka (Tel.).

Habitat.—Cultivated.

Flowering season.—Nov.-Dec.

Uses.—The fibre is the *Sunn Hemp* of commerce. Leaves, flowers and seeds are medicinal.

36. *Crotalaria medicaginea* Lamk. Encyc. Method., ii (1786), 201; H.F.B.I., ii, 81; Trim. F. Ceyl., ii, 18; Cooke. F. Pres. Bomb., ii, 302.

Indian Names.—Gulabi (Hindi and Punj.); Jenjaru (Mar.); Ranmethi (Gujerati).

Habitat.—Collected from Mulug.

Flowering season.—Nov.-Dec.

Uses.—Official (Kirtikar).

37. *Crotalaria trifolium* Willd. Sp. Pl., iii, 983; H.F.B.I., ii, 82.

Habitat.—Common at Adigmet.

Flowering season.—Collected in Aug.

Uses.—The root is medicinal (Kirtikar).

38. *Crotalaria umbellata* Wt. & Arn., 191; Gamble. F. Pres. Mad., ii, 294.

Syn.—*C. nana* Burm., H.F.B.I., ii, 71.

Habitat.—Collected from Mulug where it is very common.

Flowering season.—Dec.

39. *Indigofera cordifolia* Heyne, ex Roth. Nov. Pl. Sp. (1821), 357; H.F.B.I., ii, 93; Dalz. & Gibs., 58; Cooke. F. Pres. Bomb., ii, 311.

Indian Names.—Godadi, Bechka (Bomb.).

Habitat.—Common at Adigmet and elsewhere.

Flowering season.—Collected in April.

Uses.—Seeds are eaten in times of famine (Watt.).

40. *Indigofera enneaphylla* Linn. Mant. ii (1771), 571; H.F.B.I., ii, 94; Dalz. & Gibs., 58; Trim. F. Ceyl., ii, 22; Cooke. F. Pres. Bomb., ii, 312; Kirtikar, i, 709.

Syn.—*I. semitrijuga* Forsk. Fl. Aegypt—Arab., 137;

Indian Names.—Kenneggilu (Canarese); Bhuiguli (Mar.); Chalapachi, Cherragaddamu, Yerrapalleru (Tel.); Vasuka (Sans.), Cherupullate (Malayalam).

Habitat.—Common at Adigmet.

Flowering season.—Oct.

Uses.—Medicinal.

41. *Indigofera hirsuta* Linn. Sp. Pl. (1753), 751; H.F.B.I., ii, 98; Dalz. & Gibs., 60; Trim. F. Ceyl., ii, 26; Cooke. F. Pres. Bomb., ii, 319.

Habitat.—Common in all districts. First collected from Nalgonda.

Flowering season.—Oct.-Dec.

42. *Mundulea suberosa* Benth. Pl. Jungh., iii (1851-55), 248; H.F.B.I., ii, 110; Cooke. F. Pres. Bomb., ii, 322; Kirtikar, I. Med. Plts., i, 722.

Syn.—*Tephrosia suberosa* DC. Prodr. ii, 249; Dalz. & Gibs., 60.

Indian Names.—Bettahuruli (Canarese); Supti, Surti (Bomb.); Kadupporasu, Pirala-varam (Tam.); Kondavempali, Palasaram (Tel.).

Habitat.—Collected from Nalgonda, common elsewhere also.

Flowering season.—Oct.-Dec.

43. **Zornia diphylla** Pers. Syn. Pl., ii (1807), 318; H.F.B.I., ii, 147; Trim. F. Ceyl., ii, 35; Cooke. F. Pres. Bomb., ii, 334.

Syn.—*Z. angustifolia* Sm.; Dalz. & Gibs., 62.

Indian Names.—Landgu (Bomb.); Nelammari (Malayalam).

Habitat.—Common at Adigmet.

Flowering season.—Aug.-Sept.

Uses.—Medicinal.

44. **Alysicarpus rugosus** DC. Prodr., ii (1825), 353; H.F.B.I., ii, 159; Gamble. F. Pres. Mad., ii, 338.

Syn.—*A. Wallichii* W. & A. Prodr., 234.

Habitat.—Collected from Adigmet.

Flowering season.—Sept.

45. **Desmodium latifolium** DC. Prodr., ii (1825), 328; H.F.B.I., ii, 168; Dalz. & Gibs., 66.

Trim. F. Ceyl., ii, 51; Cooke. F. Pres. Bomb., ii, 356.

Habitat.—Common in the moist forest at Mulug.

Flowering season.—Sept.-Nov.

46. **Desmodium gyrans** DC. (Telegraph Plant) Prodr., ii (1825), 326; H.F.B.I., ii, 174; Trim. F. Ceyl., ii, 56; Cooke. F. Pres. Bomb., ii, 358.

Habitat.—Hitherto not found wild. Cultivated in the Botanic Garden, Osmania University, for its well-known movements.

47. **Atylosia lineata** Wt. & Arn. Prodr. (1834), 258; H.F.B.I., ii, 213; Cooke. F. Pres. Bomb., ii, 382.

Syn.—*A. Lawii* Wt. Ic. t. 93; Dalz. & Gibs., 74.

Habitat.—Common in Mulug.

Flowering season.—Dec.

48. **Atylosia scarabæoides** Benth. Pl. Jungh., iii (1851-55), 243; H.F.B.I., ii, 215; Trim. F. Ceyl., ii, 79; Cooke. F. Pres. Bomb., ii, 384.

Syn.—*Cantharospermum pauciflorum* W. & A. Prodr., 255; Dalz. & Gibs., 73.

Habitat.—Common in Mulug in hilly tracts.

Flowering season.—Oct.-Nov.

LEGUMINOSAE.

(*Caesalpinaceae*).

49. **Cassia Leschenaultiana** DC., Prain in Jour. As. Soc. Beng. cxvi, ii, 477.

Syn.—*C. Wallichiana* DC.; W. & A., 292. *C. mimosoides* var. *Wallichiana* Baker; H.F.B.I., ii, 266.

Habitat.—Not common.

50. **Bauhinia racemosa** Lamk. Encyc. Method., i (1783), 390; H.F.B.I., ii, 276; Cooke. F. Pres. Bomb., iii, 431; Dalz. & Gibs., 82.

Indian Names.—Ashta, Asoda, Papri (Hindi); Ara, Ayata (Canarese); Apata, Kanraja (Mar.); Are, Manjiyare, Pachare (Tel.); Anupushpaka (Sans.); Banraj (Beng.); Apta, Vanu-raj (Bomb.); Kotapuli, Mandaram (Malayalam).

Habitat.—Common in some of the deciduous forests.

Flowering season.—April-June.

Uses.—The fibre of the inner bark is used for making ropes. Leaves are pickled by the Burmese, and they are also used for making *bidis* in India. Medicinal.

XX. SAXIFRAGACEAE.

51. *Hydrangea hortensis* Sm. Ic. Pict. xii.

Habitat.—Cultivated in the Botanic Garden, Osmania University.

XXI. CRASSULACEAE.

52. *Bryophyllum tubiflorum* Harv. in Harv. & Sond. Fl. Cap., ii, 380.

Habitat.—Cultivated in rockeries. A xerophytic plant, multiplying by means of bulbils.

Flowering season.—Jan.

XXII. COMBRETACEAE.

53. *Terminalia citrina* Roxb. (Citrine Myrobalan). ex. Fleming in As. Res. xi (1810), 183. Roxb. Hort. Beng., 33; H.F.B.I., ii, 446.

Indian Names.—Haritaki, Harra (Beng.).

Habitat.—Common in the Mulug forest.

Flowering season.—Nov.-Dec.

Uses.—Medicinal.

54. *Combretum decandrum* Roxb. Cor. Pl. t. 59; H.F.B.I., ii, 452.

Habitat.—Collected from the Mulug forest.

Flowering season.—Dec.

XXIII. LYTHRACEAE.

55. *Ammania peploides* Spreng. Syst. Veg., i, (1825), 444; H.F.B.I., ii, 566; Trim. F. Ceyl., ii, 223; Cooke. F. Pres. Bomb., iii, 506.

Syn.—*Ameletia indica* DC. in Mem. Soc. Hist. Nat. Genev., iii, Pt. ii, 82; Dalz. & Gibs., 96.

Habitat.—Collected from a field in Mulug.

Flowering season.—Dec.

56. *Ammania baccifera* Linn. Sp. Pl. Ed. ii (1762), 175; H.F.B.I., ii, 569; Cooke. F. Pres. Bomb., iii, 509; Trim. F. Ceyl., ii, 224; Dalz. & Gibs., 97.

Syn.—*A. vesicatoria* Roxb. F. Ind., i (1820), 427; Kirtikar, Ed. ii, ii, 1072.

Indian Names.—Agya (Urdu); Dadmari, Jangli Mehndi (Hindi); Agnivendapaku (Tel.); Bharajambhula (Mar.); Kallarivi (Tam.); Kshetrabhusa (Sans.); Dadmari (Beng.).

Habitat.—Also collected from a moist locality in Mulug.

Flowering season.—Nov.-Dec.

Uses.—Medicinal.

XXIV. ONAGRACEAE.

57. *Ludwigia parviflora* Roxb. Hort. Beng. (1814), ii; H.F.B.I., ii, 588; Cooke. F. Pres. Bomb., iii, 517; Dalz. & Gibs., 99; Trim. F. Ceyl., ii, 234; Wight. Ill. t., 101.

Habitat.—Hilly places in Mulug and elsewhere.

Flowering season.—Nov.—rather uncertain, because the old material in the Osmania University Herbarium is not dated.

XXV. TURNERACEAE.

58. *Turnera ulmifolia* Linn. Sp. Pl. 271. var. *angustifolia* Willd.; Gamble F. Pres. Mad., iii, 523. Mayuranathan. Fl. Plts. Madras City., 124.

Habitat.—Collected from an old well in the ruins of Mushk Mahal, and later on from a waste place towards Osmansagar. It is interesting to note that this plant, a native of the West Indies, should be found growing wild in a few places in Hyderabad. It has not, however, propagated profusely. Neither has Hooker nor Cooke recorded it.

Flowering season.—Aug.

XXVI. PASSIFLORACEAE.

59. **Passiflora edulis** Sims. Bot. Mag. t. (1989); Kirt. Ind. Med. Plts. II Ed., ii, 1103.

Habitat.—A native of Brazil, cultivated for its fruit.

Uses.—Fruit edible and medicinal.

XXVII. CUCURBITACEAE.

60. **Ctenolepis Garcini** Naud. in Ann. Sc. Nat. Ser. 5, vi, 13; H.F.B.I., ii, 629.

Habitat.—Collected from Sirnapalli (Nizamabad District).

Flowering season.—July-Aug.

XXVIII. FICOIDACEAE.

61. **Mollugo oppositifolia** Linn. Sp. Pl. (1753), 89; Cooke. F. Pres. Bomb., iii, 558; Kirt. Ind. Med. Plts., ii, Ed., ii, 1184.

Syn.—*M. Spergula* Linn. Syst. ed. 10 (1759), 881.

Indian Names.—Jima (Hindi); Parpataka (Canarese); Jharasi (Mar.); Kaipajira (Malayalam); Phanija (Sans.); Kachantarai (Tam.); Chayun-tarashiaku (Tel.).

Habitat.—Common at Adigmet.

Flowering season.—Sept.-Oct.

Uses.—Medicinal.

62. **Mollugo pentaphylla** Linn. Sp. Pl. (1753), 89; Cooke. F. Pres. Bomb., iii, 558; Dalz. & Gibs., 16.

Syn.—*M. stricta* Linn. Sp. Pl. Ed. ii (1762), 131.

Indian Names.—Jharasa (Mar.); Verrichatarasi (Tel.); Julpapra (Beng.).

Habitat.—Common elsewhere.

Flowering season.—Sept.-Nov.

Uses.—Occasionally eaten for its good properties. Medicinal.

XXIX. UMBELLIFERAE.

63. **Hydrocotyle asiatica** Linn. (Asiatic Penny-wort) Sp. Pl. (1753), 234; H.F.B.I., ii, 669; Dalz. & Gibs., 105; Wt. Icon. t., 565; Cooke. F. Pres. Bomb., iii, 562.

Indian Names.—Barhmi (Urdu); Brahmamanduki (Hindi & Beng.) Babassa (Tam. & Tel.); Brahmi (Mar.); Kodagam (Malayalam).

Habitat.—Near water-courses. First collection from a shaded moist situation near a stream in Mulug.

Flowering season.—May-Oct.

Uses.—Medicinal.

XXX. ARALIACEAE.

64. **Panax fruticosum** Linn. Sp. Pl. ed. ii, 1513; H.F.B.I., ii, 725; Dalz. & Gibs. Suppl. 142; Cooke. F. Pres. Bomb., iii, 574.

Habitat.—Commonly grown for its foliage.

XXXI. RUBIACEAE.

65. **Stephegyne parvifolia** Korth. in Verh. Gesch. Nat. Bot., 161; H.F.B.I., iii, 25.

Habitat.—Common in Mulug forest.

Flowering season.—Nov.

66. **Oldenlandia herbacea** Roxb. Hort. Beng. (1814), ii; Fl. Ind., i, 424; Cooke. F. Pres. Bomb., iii, 589.

Syn.—*O. Heynii* G. Don. Syst. iii (1834), 531; H.F.B.I., iii, 65. *Hedyotis herbacea* Linn. Sp. Pl. (1753), 102. *Hedyotis Heynii* Br. in Wall. Cat., 867; Dalz. & Gibs., 116.

Habitat.—Collected from Nalgonda, also common elsewhere.

Flowering season.—Aug.

Uses.—Medicinal (Kirtikar).

67. **Oldenlandia dichotoma** Koen; H.F.B.I., iii, 67; Cooke. F. Pres. Bomb., iii, 590; Gamble. F. Pres. Mad., iv, 601.

Syn.—*Hedyotis dichotoma* W. & A. 416 in part. *Hedyotis Heynei* Bedd. Icon. Pl. Ind. Or. t., 33.

Habitat.—Nalgonda, in moist places.

Flowering season.—July-Sept.

68. **Randia dumetorum** Lamk. Tab. Encyc., ii (1793), 227; H.F.B.I., iii, 110; Dalz. & Gibs., 119.

Syn.—*Randia longispina* DC. Prodr., iv, 386; Dalz. & Gibs., 119; Cooke. F. Pres. Bomb., iii, 600.

Indian Names.—Mainphal (Urdu); Arar, Mainphal (Hindi); Gehela (Deccan); Galay, Ghela, Madan (Mar.); Madanamu (Tel.); Kadudam, Karai (Tam.).

Habitat.—Common in the Mulug and Sirnapalli forests.

Flowering season.—May.

Uses.—The fresh fruit is roasted and eaten. The wood is used for agricultural implements and for fuel. The plant is sacred amongst Hindus. Medicinal (Watt.).

69. **Gardenia latifolia** Ait. Hort. Kew., i (1789), 294; H.F.B.I., iii, 116; Cooke. F. Pres. Bomb., iii, 602; Dalz. & Gibs., 120; Wt. Icon. t., 759; Trim. F. Ceyl., ii, 332.

Habitat.—Very common in Mulug, Sirnapalli, and Vikarabad.

Flowering season.—April-June, fruit in Aug.

Uses.—The wood is used in making combs.

70. **Canthium parvifolium** Roxb. Hort. Beng., 15; Fl. Ind., i, 534; H.F.B.I., iii, 135.

Habitat.—Vicinity of Adigmet.

Flowering season.—Collected in the fruiting condition in Aug.

71. **Pavetta indica** Linn. (Indian Peller Shrub) Sp. Pl. (1753), 110; H.F.B.I., iii, 150; Cooke. F. Pres. Bomb., iii, 612; Dalz. & Gibs., 112; Wt. Icon. t., 148.

Syn.—*Ixora Pavetta* Roxb. Fl. Ind., 385.

Indian Names.—Kankra, Papari (Hindi); Pappadi (Canarese); Papadi (Mar.); Nallapapidi; Tapra (Tel.); Pavaltai (Tam.); Papat (Bomb.); Kukurachura (Beng.).

Habitat.—Common in hills in the Mulug forest.

Flowering season.—April-May.

Uses.—Medicinal (Kirtikar).

72. **Hamiltonia suaveolens** Roxb. Hort. Beng. (1814), 15; H.F.B.I., iii, 197; Cooke. F. Pres. Bomb., iii, 621.

Syn.—*Hamiltonia mysorensis* Wt. & Arn. Prodr., 423; Dalz. & Gibs., 115.

Indian Names.—Gidasawa, Gidesa (Bomb.); Mahabal (C.P.); Fisauni, Gohinla, Kanera (Punjab).

Habitat.—Collected from the hills in Khuldabad (Aurangabad District).

Flowering season.—Feb. Fruit in June.

Uses.—Medicinal.

73. **Spermacoe stricta** Linn. f. Suppl. (1781), 120; H.F.B.I., iii, 200; Cooke. F. Pres. Bomb., iii, 623.

Habitat.—Common at Adigmet and elsewhere.

Flowering season.—Aug.-Oct.

XXXII. COMPOSITAE.

74. **Vernonia cinerea** Less. in Linnaea, iv (1829), 291; H.F.B.I., iii, 233; Dalz. & Gibs., 121; Cooke. F. Pres. Bomb., Vol. ii, Pt. i, 10.

Indian Names.—Dandotpala, Sahadevi (Hindi); Osari, Sadodi, Sahadevi (Mar.); Garitikamma (Tel.); Puvamkurundal, Sahadevi (Tam.); Sadodi, Shedardi (Guj.); Puvankuruntal (Malayalam); Sahadevi (Punjab); Dandotpala, Devasasha, Devika (Sans.).

Habitat.—A common weed.

Flowering season.—Dec.-Feb.

Uses.—Medicinal.

75. **Ageratum mexicanum** Sims., Bailey, Cycl. Hort. 239.

Habitat.—A much-cultivated annual.

Flowering season.—Winter, about Dec. and Jan.

76. **Blumea Wightiana** DC. in Wt. Contrib. (1834), 14; H.F.B.I., iii, 261; Cooke. F. Pres. Bomb., Vol. ii, Pt. i, 19; Dalz. & Gibs., 125.

Habitat.—Common in waste places round about Adigmet and elsewhere.

Flowering season.—Dec.-Feb.

77. **Helichrysum** sp. (Everlasting Straw Flower).

Habitat.—A hardy annual grown for its beautiful flowers.

78. **Pulicaria angustifolia** DC. Prodr., v, (1836), 479; H.F.B.I., iii, 299; Cooke. F. Pres. Bomb., Vol. ii, Pt. i, 34; Clarke, Comp. Ind., 129.

Syn.—*Callistephus concolor* Dalz. in Kew Jour. Bot., ii, 344.

Habitat.—Common at Adigmet and elsewhere.

Flowering season.—Nov.

79. **Lagasca mollis** Cav. in Anal. Cienc. Nat., vi (1803), 332; H.F.B.I., iii, 302.

Habitat.—Common in grass lands.

Flowering season.—Almost throughout the year.

80. **Acanthospermum hispidum** DC., Gam. F. Pres. Mad., Pt. iv, No. 4, 704.

Habitat.—A South American plant spreading rapidly here.

Flowering season.—Aug.

81. **Sclerocarpus africanus** Jacq. Icon. Pl. Rar., (1782), 17; H.F.B.I., iii, 305; Cooke. F. Pres. Bomb., Vol. ii, Pt. i, 39; Dalz. & Gibs., 129; Clarke, Comp. Ind., 134.

Habitat.—Common in the Dominions in hilly regions.

Flowering season.—July-Aug.

82. **Tridax procumbens** Linn. Sp. Pl. (1753), 1900; H.F.B.I., iii, 311; Clarke, Comp. Ind., 142; Cooke. F. Pres. Bomb., Vol. ii, Pt. i, 45.

Habitat.—Although a native of Central America, it is found as a common weed throughout the Dominions.

Flowering season.—Almost throughout the year.

83. **Flaveria australasica** Hook., Benth. Fl. Aust., iii, 546; Gamb. F. Pres. Mad., Pt. iv, No. 4, 711; Mayuranathan, Fl. Plts. Mad. City., 152.

Habitat.—A herb introduced from Australia, now common in moist places.

84. **Gynura nepalensis** DC. Prodr. vi, 300; H.F.B.I., iii, 333; Clarke, Comp. Ind., 171.

Habitat.—Much grown for its handsome foliage and flowers.

85. **Emilia sonchifolia** DC.; H.F.B.I., iii, 336; Gamble, F. Pres. Mad., iv, 716.

Habitat.—Common in rice-fields.

86. **Notonia grandiflora** DC. in Wt. Contrib. (1834), 24; H.F.B.I., iii, 337; Clarke, Comp. Ind., 176; Cooke. F. Pres. Bomb., Vol. ii, Pt. i, 50; Dalz. & Gibs., 133.

Indian Names.—Gaidar (Bomb.); Wander-roti (Mar.); Kunde-lucheviyaku (Tel.).

Habitat.—Not wild. Often grown in gardens.

Uses.—Medicinal (Kirtikar).

87. **Tricholepis radicans** DC. Prod., vi (1837), 564; H.F.B.I., iii, 381; Clarke, Comp. Ind., 239; Cooke. F. Pres. Bomb., Vol. ii, Pt. i, 56; Dalz. & Gibs., 131.

Habitat.—Nalgonda.

Flowering season.—Dec.-Jan.

88. **Dicoma tomentosa** Cass. in Bull. Soc. Philom (1818), 47; H.F.B.I., iii, 387; Clarke, Comp. Ind., 245; Cooke. F. Pres. Bomb., Vol. ii, Pt. i, 58. Syn.—*Dicoma lanuginosa* DC. in Wt. Contrib. (1834), 26; Dalz. & Gibs., 132.

Indian Names.—Navananjichapala (Belgaum); Gholoharnacharo (Gujerati).

Habitat.—Common on gravelly soil.

Flowering season.—Dec.-Feb.

Uses.—Medicinal.

89. **Cichorium Intybus** Linn. (Chicory), Sp. Pl. (1753), 813; H.F.B.I., iii, 391; Kirt. Ind. Med. Plts., ii, 1433.

Indian Names.—Kasani (Urdu, Pers. and Gujerati); Kasni (Hindi); Kasini (Tel.); Kashini (Tam).

Habitat.—It is rather strange that Abdus Salam found it growing wild near a canal at Himayathnagar. Since then its development and distribution is under observation.

Flowering season.—Feb.

Uses.—Medicinal.

90. **Sonchus oleraceus** Linn. Sp. Pl. (1753), 794; H.F.B.I., iii, 414; Cooke. F. Pres. Bomb., ii, 61. *Sonchus ciliatus* Lam. F. Fr., ii, (1778), 87; Wt. Icon. t. 1141.

Indian Names.—Ratrinta (Tel.); Mhatara (Bomb.).

Habitat.—Apparently wild in cultivated lands and gardens, also on roadsides. Probably an introduction.

Flowering season.—Oct.-Jan.

Uses.—Medicinal.

91. **Launaea pinnatifida** Cass. in Ann. Sc. Nat. Ser. 1, xxiii (1831), 85; H.F.B.I., iii, 416; Cooke. F. Pres. Bomb., ii, Pt. i, 64; Kirt. Ind. Med. Plts. ii, 1447.

Syn.—*Microrhynchus sarmentosus* DC. Prodr., vii, 181; Wt. Ill. t., 131; Clarke, Comp. Ind., 277; Dalz. & Gibs., 132. *Prenanthes sarmentosa* Willd. Sp. Pl., iii, 1540; Grah. Cat., 94.

Indian Names.—Bankan (Hindi); Bhonpatri, Pathradi (Mar.); Pathri (Bomb.); Bhonpatri (Gujerati).

Habitat.—A common sandbinder.

Flowering season.—Nov.-Dec.

Uses.—Medicinal.

XXXIII. EBENACEAE.

92. **Maba nigrescens** Dalz. & Gibs. Bomb. Fl. (1861), 142; H.F.B.I., iii, 551; Cooke. F. Pres. Bomb., ii, Pt. i, 97.

Indian Name.—Rakta-rora (Bomb.).

Habitat.—Common in Mulug forest.

Flowering season.—Nov.-Feb.

Uses.—The wood is used in making rafters.

XXXIV. OLEACEAE.

93. **Jasminum auriculatum** Vahl. Symb. Bot., iii (1794), 1; H.F.B.I., iii, 600; Cooke. F. Pres. Bomb., ii, Pt. i, 113; Kirt. Ind. Med. Plts., ii, 1524.

Indian Names.—Adavimolla (Tel.); Hurinaballi (Canarese); Mullaikkōḍ (Tam.); Ambashtha, Jai (Sans.).

Habitat.—Common at Anantgiri Hill (Vikarabad).

Flowering season.—May-Aug.

Uses.—Medicinal.

94. **Ligustrum robustum** Blume Mus. Bot. i, 313; H.F.B.I., iii, 614.

Habitat.—Cultivated.

XXXV. SALVADORACEAE.

95. **Salvadora persica** Linn. (The Tooth-brush Tree) Sp. Pl. (1753), 122; H.F.B.I., iii, 619; Cooke. F. Pres. Bomb., ii, Pt. i, 121.

Syn.—*S. indica* Wight Ill. t. 181. *S. Wightiana* Planch. in Thw. Enum., 190; Bedd. Flor. Sylvat. t. 247.

Indian Names.—Pilu, Pilva (Mar.); Khakan (Bomb.); Waragarwenki (Tel.); Pilu (Sans.); Arak (Arab.); Darakhti-misvak (Pers.).

Habitat.—Probably a cultivated tree.

Flowering season.—Dec.-Feb.

Uses.—Fruits are eaten. Wood is employed for making tooth-brushes. Medicinal.

XXXVI. APOCYNACEAE.

96. **Rauwolfia serpentina** Benth. ex Kurz For. Fl. Brit. Burma, ii (1877), 171; H.F.B.I., iii, 632; Cooke. F. Pres. Bomb., ii, Pt. i, 127.

Syn.—*Ophioxylon serpentinum* Linn. Sp. Pl. (1753), 104; Dalz. & Gibs., 143; Roxb. Fl. Ind., i, 694.

Indian Names.—Chhotachand (Hindi); Chandrike (Canarese); Dumparasna, Patalagandhi (Tel.); Harkaya, Harki (Mar.); Sovannamilbori (Tam.); Chandra (Beng.); Amelpodi, Chandra, Chhotachand, Harkai (Bomb.).

Habitat.—Collected from Mulug forest.

Flowering season.—Dec.

Uses.—Medicinal.

XXXVII. ASCLEPIADACEAE.

97. **Calotropis procera** R.Br. in Ait. Hort. Kew. ed. 2, ii (1811), 78; H.F.B.I., iv, 18; Cooke. F. Pres. Bomb., ii, Pt. i, 152; Dalz. & Gibs., 149; Wt. Ic. t. 1278.

Indian Names.—Ak, Madar, Safedak (Hindi); Mandara (Mar.); Jilledu, Mandaramu, Nallajilledu (Tel.); Vellerukku (Tam.).

Habitat.—Common in dry situations throughout the Dominions.

Flowering season.—Nov.-Dec.

Uses.—Medicinal.

98. **Pergularia pallida** Wt. & Arn. in Wt. Contrib. (1834), 42; H.F.B.I., iv, 38; Wt. Icon. t. 585; Cooke. F. Pres. Bomb., ii, Pt. i, 164.

Habitat.—Collected from Adigmet.

Flowering season.—Feb.

99. **Pergularia extensa** N. E. Br. in Fl. Cap. iv, i, 758; Gamble. F. Pres. Mad., v, 837; Kirt. Ind. Med. Plts., iii, 1616.

Syn.—*Daemia extensa* R. Br., H.F.B.I., iv, 20; Wt. Icon. t. 596.

Indian Names.—Jutuk, Utran (Hindi); Utarana, Amaradudheli (Mar.); Dushtupatige, Guruti (Tel.); Belihatti (Canarese); Achanimuli, Kudagaram (Tam.); Veliparutti (Malayalam); Amaradudheli, Nagaladudhi (Gujerati); Uarni (Bomb.); Chagulbanti (Beng.); Karial (Punjab).

Habitat.—Common in Nalgonda District.

Flowering season.—Dec.

Uses.—Medicinal.

100. **Tylophora macrantha** Hook. f.; H.F.B.I., iv, 40; Gamble. F. Pres. Mad., v, 842.

Habitat.—Collected from Mulug forest.

Flowering season.—Dec.

101. **Tylophora asthmatica** W. & A. in Wt. Contrib. (1834), 51; H.F.B.I., iv, 44; Wt. Ic. t. 1277; Cooke. F. Pres. Bomb., ii, Pt. i, 164.

Indian Names.—Antamul (Hindi); Kakapala, Kukkapala (Tel.); Pitakari (Mar.); Adumuttada (Canarese); Vallippala (Malayalam); Antomul (Beng.).

Habitat.—Common at Adigmet and elsewhere.

Flowering season.—Aug.-Nov.

Uses.—Medicinal.

102. **Ceropegia pusilla** W. & A. in Wt. Contrib. 31; Wight Icon. t. 1261; H.F.B.I., iv, 66; Gamble F. Pres. Mad., v, 856.

Habitat.—Collected from Adigmet from a grassy hillock.

Flowering season.—July.

103. **Ceropegia spiralis** Wt. Ic. t. 1267; H.F.B.I., iv, 66; Gamble. F. Pres. Mad., v, 856.

Habitat.—A common herb in dry, hilly situations.

Flowering season.—May-June.

104. **Ceropegia hirsuta** W. & A. in Wt. Contrib. (1834), 30; H.F.B.I., iv, 71; Cooke. F. Pres. Bomb., ii, Pt. i, 177; Gamble F. Pres. Mad., v, 859.

Indian Name.—Hamana (Bomb.).

Habitat.—Collected from the Mananur forest.

Flowering season.—Feb.

105. **Stapelia grandiflora** Masson, Stapel (1796), 13, t. 11; Cooke. F. Pres. Bomb., ii, Pt. i, 180.

Habitat.—A native of S. Africa, kindly presented by Dr. Gravely to the Botanic Garden, Osmania University.

Flowering season.—Summer, about April-June.

106. **Stapelia variegata** Linn. Sp. Pl. 217.

Habitat.—A native of S. Africa. Kindly presented by Dr. Gravely to the Botanic Garden, Osmania University.

Flowering season.—Summer—April to June.

XXXVIII. GENTIANACEAE.

107. **Canscora diffusa** R. Br. Prodr. (1810), 451 in Obs.; H.F.B.I., iv, 103; Cooke F. Pres. Bomb., ii, Pt. i, 191; Gamble F. Pres. Mad., v, 878; Kirt. Ind. Med. Plts., iii, 1759.

Syn.—*C. Lawii* Wt. Ic. t. 1527 (not of C. B. Clarke).

Habitat.—A common herb at Adigmet and elsewhere.

Flowering season.—Jan.-April.

Uses.—Medicinal.

XXXIX. HYDROPHYLLACEAE.

108. **Hydrolea zeylanica** Vahl Symb. Bot. ii (1791), 46; H.F.B.I., iv, 133; Cooke F. Pres. Bomb., ii, Pt. i, 197; Gamble F. Pres. Mad., v, 884; Kirt. Ind. Med. Plts., iii, 1672.

Indian Names.—Langali (Sans.); Cheruvallel (Malayalam); Ishangulya, Kasschra (Beng.).

Habitat.—A common marsh herb.

Flowering season.—Dec.

Uses.—Medicinal.

XL. BORAGINACEAE.

109. **Coldenia procumbens** Linn. Sp. Pl. (1753), 125; H.F.B.I., iv, 144; Cooke F. Pres. Bomb., ii, Pt. i, 205; Dalz. & Gibs., 171; Kirt. Ind. Med. Plts., iii, t. 1683.

Indian Names.—Tripungki (Hindi); Tripunkhi (Mar.); Hampadi (Tel.); Serupadi (Tam.); Basriookharad (Guj.); Tripakshi (Sans. & Bomb.).

Habitat.—Found in moist places.

Flowering season.—Sept.-Oct.

Uses.—Medicinal.

110. **Heliotropium brevifolium** Wall. Cat. 914. *H. strigosum* var. *brevifolia* Clark; H.F.B.I., iv, 151.

Indian Names.—Chitiphul, Safedbhanga (Hindi); Gorakh-pamo (Punjab).

Habitat.—A common herb.

Flowering season.—Aug.-Sept.

Uses.—Medicinal.

XLI. CONVULVACEAE.

111. **Argyrea cymosa** Sweet Hort. Brit. ed. ii, 373; H.F.B.I., iv, 190; Wt. Ic. t., 839; Cooke F. Pres. Bomb., ii Pt. ii, 257; Gamble F. Pres. Mad., v, 908.

Habitat.—Found in hedges and scrub jungles.

Flowering season.—May.

112. **Ipomaea chryseides** Ker in Bot. Reg. t., 270; H.F.B.I., iv, 206; Wt. Ic. t., 157.

Syn.—*Convolvulus chryseides* Spreng. Syst., i, 598. *Convolvulus dentatus* Vahl Symb., iii, 25.

Habitat.—Collected from Mulug forest.

Flowering season.—Dec.

113. **Ipomaea Turpethum** Br. Prodr., 485; H.F.B.I., iv, 212; Dalz. & Gibs., 165.

Syn.—*Ipomaea triquetra* Roem. & Sch. Syst., iv, 231. *Convolvulus turpethum* Linn.; Roxb. Hort. Beng., 14.

Habitat.—Common in Mulug.

Flowering season.—Dec.

114. **Ipomaea Horsfalliae** Hook. Bot. Mag. (1834) t., 3315; Cooke F. Pres. Bomb., ii, Pt. ii, 252.

Habitat.—A native of W. Indies, grown for its beautiful crimson flowers.

Flowering season.—Almost throughout the year.

XLII. SOLANACEAE.

115. **Solanum pubescens** Willd. Phyt. (1794), 5; H.F.B.I., iv, 230; Wt. Ic. t., 1402; Cooke F. Pres. Bomb., ii, Pt. ii, 263.

Habitat.—Cultivated.

Flowering season.—Aug.-Nov.

116. **Solanum torvum** Swartz Prodr., 47; H.F.B.I., iv, 234; Dalz. & Gibs., 175; Cooke F. Pres. Bomb., ii, Pt. ii, 269.

Indian Names.—Kondavust (Tel.); Chunta (Malayalam); Titbaigum (Beng.).

Habitat.—Collected from the city environs.

Flowering season.—July.

Uses.—Fruits are eaten as vegetables, also medicinal.

117. **Solanum trilobatum** Linn. Sp. Pl. (1753), 188; H.F.B.I., iv, 236; Cooke F. Pres. Bomb., ii, Pt. ii, 267; Kirt. Ind. Med. Plts., iii, 1762.

Indian Names.—Alarkapatramu (Tel.); Ambusondeballi, Kakamunji (Canar-ese); Achuda (Sans.).

Habitat.—Common in Mulug.

Flowering season.—Dec.

Uses.—Medicinal.

118. **Solanum Seafortianum** Andr. Bot. Rep. t. 504. (Blue Potato Creeper).

Habitat.—A native of Tropical America. Grown for its pretty white and blue flowers.

XLIII. SCROPHULARIACEAE.

119. **Celsia coromandeliana** Vahl Symb. Bot. iii (1794), 79; H.F.B.I., iv, 251; Cooke F. Pres. Bomb., ii, Pt. ii, 281; Kirt. Ind. Med. Plts., iii, 1807.

Indian Names.—Gadartambaku, Kokshima (Hindi); Kolhala, Kutki (Mar.); Kōhhal (Bomb.); Kalhara (Guj.); Koksima (Beng.).

Habitat.—Collected from Khuldabad.

Flowering season.—June.

Uses.—Medicinal.

120. **Limnophila racemosa** Benth. Scroph. Ind. (1835), 26; H.F.B.I., iv, 271; Dalz. & Gibs. 177; Cooke F. Pres. Bomb., ii, Pt. ii, 291; Wt. Ic. t. 861.

Indian Name.—Mahaka (Bomb.).

Habitat.—Common in marshy places in Mulug and elsewhere.

Flowering season.—Dec.

121. **Bonnaya veronicaefolia** Spreng. Syst. Veg., i (1825), 41; H.F.B.I., iv, 285; Cooke F. Pres. Bomb., ii, Pt. ii, 298; Dalz. & Gibs., 178.

Indian Names.—Shewal (Bomb.).

Habitat.—Common in moist places towards Vikarabad, Mulug and elsewhere.

Flowering season.—Nov.-Dec.

122. **Angelonia grandiflora** C. Morr. in Ann. Soc. Hort. Gand, iii, 93, t. 119.

Habitat.—Extensively cultivated in gardens.

Flowering season.—Winter.

XLIV. BIGNONIACEAE.

123. **Bignonia venusta** Ker—Gawl. in Bot. Reg. t. 249.

Habitat.—Cultivated for its beautiful flowers.

Flowering season.—Dec.-March.

124. **Tecoma jasminoides** Lindl. Bailey, Encyc. Hort. 3317.

Habitat.—Cultivated.

Flowering season.—Almost throughout the year.

XLV. ACANTHACEAE.

125. **Thunbergia fragrans** Roxb. Cor. Pl., 1 (1795), 47, t. 67; H.F.B.I., iv, 390; Cooke F. Pres. Bomb., ii, Pt. ii, 342; Dalz. & Gibs., 183.

Indian Name.—Chimine (Bomb.).

Habitat.—A common garden escape.

Flowering season.—Almost throughout the year.

I agree with Cooke that the specific name is a misnomer. I have examined many flowers from several plants, and have satisfied myself that there is absolutely no fragrance.

126. **Thunbergia grandiflora** Roxb. Hort. Beng. (1814), 45; H.F.B.I., iv, 392; Cooke F. Pres. Bomb., ii, Pt. ii, 343.

Habitat.—Commonly grown in gardens.

127. **Thunbergia mysorensis** T. Andres. in Jour. Linn. Soc., ix (1867), 448; H.F.B.I., iv, 393; Cooke F. Pres. Bomb., ii, Pt. ii, 342; Dalz. & Gibs., 183.

Habitat.—Cultivated.

Flowering season.—Dec.

128. **Elytraria crenata** Vahl Enum., i, 106; H.F.B.I., iv, 394; Dalz. & Gibs., 183.

Habitat.—Collected from the Mulug forest.

Flowering season.—Dec.-March.

129. **Hygrophila polysperma** T. Andres, in Jour. Linn. Soc., ix (1867), 456; H.F.B.I., iv, 406; Cooke F. Pres. Bomb., ii, Pt. ii, 353.

Syn.—*Hemiadelphis polysperma* Nees. in Watt. Pl. As. Rar., iii, 80; Wt. Ic. t. 1492.

Habitat.—Common in marshy places throughout.

Flowering season.—Nov.-Dec.

130. **Hygrophila spinosa** T. Andres. in Thwaites Enum. 225, and in Jour Linn. Soc., vii, 22; H.F.B.I., iv, 408.

Habitat.—Common in ditches near tanks and fields.

Flowering season.—Feb.

131. **Ruellia longifolia** T. Andres. in Jour. Linn. Soc., ix (1867), 460; H.F.B.I., iv, 412; Watt. Dict. Econ. Prod. I., vi, Pt. i, 589.

Syn.—*Dipteracanthus longifolius* Stocks, in Kew Jour., Bot., iv (1852), 177.

Habitat.—Vicinity of Adigmet.

Flowering season.—Undated sheet in Herbarium Hyderabadense.

132. **Ruellia tuberosa** Linn. Sp. Pl. 635.

Habitat.—Collected from Adigmet, a cultivated plant.

Flowering season.—Undated sheet in Herbarium Hyderabadense.

133. **Phayloopsis parviflora** Willd. Sp. Pl., iii, 342; H.F.B.I., iv, 417.

Habitat.—Collected from Mulug forest.

Flowering season.—Dec.

134. **Strobilanthus Kunthianus** T. Andres. in Jour. Linn. Soc., ix, 465; H.F.B.I., iv, 434.

Habitat.—Common in the vicinity of Adigmet.

Flowering season.—Nov.-Dec.

135. **Blepharis bœrhaaviæfolia** Pers. Syn., ii (1807), 180; H.F.B.I., iv, 478; Cooke F. Pres. Bomb., ii, Pt. ii, 349; Dalz. & Gibs., 192; Wt. Ic. t., 458.

Habitat.—Collected from Mulug.

Flowering season.—Dec.

136. **Barleria cuspidata** Heyne; Nees in Wall. Pl. As. Rar., iii, 93 and in DC. Prodr., xi, 239; H.F.B.I., iv, 483; Cooke F. Pres. Bomb., ii, Pt. ii, 380; Wt. Ic. t. 451.

Habitat.—Common at Adigmet.

Flowering season.—Dec.

137. **Barleria strigosa** Willd. Sp. Pl., iii (1800), 379; H.F.B.I., iv, 489; Cooke F. Pres. Bomb., ii, Pt. ii, 384; Kirt. Ind. Med. Plts., iii, 1880.

Syn.—*Barleria terminalis* Nees in DC. Prodr., xi (1847), 225; Dalz. & Gibs., 188. *B. coerulea* Grah. Cat., 161.

Indian Names.—Nilam baramu (Tel.); Nilambaram, Nili (Tam.); Nilakurinni (Malayalam); Wahiti (Bomb.); Dasi (Beng.); Nilakurantaka (Sans.).

Habitat.—Collected from Mulug forest.

Flowering season.—Dec.

Uses.—Medicinal.

138. **Phlogacanthus curviflorus** Nees in Wall. Pl. As. Rar. iii, 113 and in DC. Prodr., xi, 320; H.F.B.I., iv, 511; Cooke F. Pres. Bomb., ii, Pt. ii, 417.

Habitat.—A native of khasia mountains, cultivated for its showy brick-red flowers.

139. **Rhinacanthus communis** Nees in Wall. Pl. As. Rar. iii, 109, and in DC. Prodr., xi, 442; H.F.B.I., iv, 541.

Habitat.—Doubtfully indigenous.

140. **Peristrophe bicalyculata** Nees in Wall. Pl. As. Rar. ii, 113 and in DC. Prodr. xi, 496; H.F.B.I., iv, 554; Cooke F. Pres. Bomb., ii, Pt. ii, 415; Dalz. & Gibs., 197.

Indian Names.—Atrilal, Itrelal, Masi (Hindi); Ghatipittapapada, Rankirayat (Mar.); Chebira (Tel.); Pitpatra (Sans.); Nasabhaga (Beng.).

Habitat.—Common in Mulug and elsewhere.

Flowering season.—Nov.-Dec.

Uses.—Supposed to be medicinal.

141. **Fittonia argyroneura** E. Coem. in Fl. des Serres, xvi (1865), 103.

Habitat.—A native of Peru, grown in gardens.

XLVI. VERBENACEAE.

142. *Vitex Negundo* Linn. (Indian Privet) Sp. Pl. (1753), 638; H.F.B.I., iv, 583; Cooke F. Pres. Bomb., ii, Pt. ii, 428.

Syn.—*Vitex bicolor* Willd. Enum. Hort. Berol, 660 (in note); Dalz. & Gibs., 201; *Vitex trifolia* Grah. Cat., 155 (not of Linn.).

Indian Names.—Nirgandi (Hindi); Shamalu, Shambalu (Deccan); Nirgunda, Lingur (Mar.); Nallavavili (Tel.); Nochi (Canarese); Nirkkundi (Tam.); Banjangasht, Sisban (Pers.); Aslag, Fanjangasht (Arab.); Indrani, Nilapushpa (Sans.); Nirgundi (Bomb.); Bankhu (Punjab).

Habitat.—A common large shrub along roadsides near villages.

Flowering season.—Almost throughout the year.

Uses.—Medicinal.

143. *Clerodendron phlomidis* Linn. f. Suppl. (1781), 292; Cooke F. Pres. Bomb., ii, Pt. ii, 431.

Syn.—*Clerodendron phlomoides* Willd. Sp. Pl., iii (1800), 386; H.F.B.I., iv, 590; Dalz. & Gibs., 200; Wt. Ic. t. 1473.

Indian Names.—Arni, Piran (Hindi); Talaki, Tekkali (Tel.); Sayandi, Takkari (Tam.); Arni, Irun (Guj.); Tirutali (Malayalam); Arani, Agnimantha, Gandhapushpa (Sans.).

Habitat.—Common in Mulug and elsewhere, growing in hedges in dry situations.

Flowering season.—Nov.-Feb.

Uses.—Medicinal.

144. *Clerodendron serratum* Spreng. Syst. Veg., ii (1825), 758; H.F.B.I., iv, 592; Wt. Ic. t. 1472; Cooke F. Pres. Bomb., ii, Pt. ii, 432; Dalz. & Gibs., 200.

Indian Names.—Barangi (Hindi); Bharangi (Urdu and Bomb.); Barangi, Bhramaramari (Tel.); Bharangi (Mar.); Gantubarangi (Canarese); Cherutekku (Malayalam); Bharangi Bhargavi, Bramhi (Sans.).

Habitat.—Common on the Telangana side.

Flowering season.—Sept.

Uses.—Medicinal.

145 *Verbena chamaedryfolia* Jus. in Ann. Mus. Par., vii (1806), 73; Cooke F. Pres. Bomb., ii, Pt. iii, 437.

Habitat.—A native of S. America, several hybrids of which are grown largely in gardens.

146 *Holmskioldia sanguinea* Retz. Obs. fasc., vi (1791), 31; Cooke F. Pres. Bomb., ii, Pt. iii, 437; Watt. Dict. Econ. Prod. I., iv, 260.

Habitat.—A native of the subtropical Himalaya. Its large rounded red calyx is remarkable. Commonly grown in gardens.

XLVII. LABIATAE.

147. *Coleus spicatus* Benth. in Wall. Pl. As. Rar., ii (1831), 15; H.F.B.I., iv, 624; Wt. Ic. t. 1431; Cooke F. Pres. Bomb., ii, Pt. iii, 449.

Syn.—*Coleus Zatarhendi* Dalz. & Gibs., 206.

Habitat.—A strongly scented herb. Collected from Mananur. It was growing among bushes on stony ground.

Flowering season.—Dec.-Feb.

148. *Hyptis suaveolens* Poit. in Ann. Mus. Par., vii (1806), 472; H.F.B.I., iv, 630; Cooke F. Pres. Bomb., ii, Pt. ii, 476; Kirt. Ind. Med. Plts., iii, 2032.

Habitat.—A native of Tropical America, has become naturalized in many parts of India. Collected from Mulug.

Flowering season.—Dec.

Uses.—Medicinal.

149. *Dysophylla myosuroides* Benth. in Wall. Pl. As. Rar., i (1830), 30; H.F.B.I., iv, 638; Cooke F. Pres. Bomb., ii, Pt. iii, 456.

Habitat.—Collected from a rocky place in Mananur forest.

Flowering season.—Jan.-Feb.

150. **Meriandra bengalensis** Benth. (Bengal sage) Lab. 189; H.F.B.I., iv, 653; Cooke. F. Pres. Bomb., ii, Pt. iii, 475; Kirt. Ind. Med. Plts., iii, 1996.

Indian Names.—Kafur-ka-patta (Deccan and Bomb.); Kafurkapat (Hindi); Simakarpuramu (Tel.); Sayayilai (Tam.).

Habitat.—A native of Abyssinia—cultivated in gardens.

Flowering season.—Almost throughout the year.

Uses.—Medicinal.

151. **Leucas mollissima** Wall. Pl. As. Rar., i (1830), 62; H.F.B.I., iv, 682; Cooke F. Pres. Bomb., ii, Pt. iii, 469; Watt, Dict. Econ. Prod. I., iv, 634.

Habitat.—Common in the vicinity of the city. First collected from UMBERPET from a hedge.

Flowering season.—Oct.-Dec.

XLVIII. NYCTAGINACEAE.

152. **Boerhaavia repanda** Willd. Sp. Pl., i (1797), 22; H.F.B.I., iv, 709; Dalz. & Gibs., 213; Wt. Ic. t. 1766; Cooke F. Pres. Bomb., ii, Pt. iii, 480.

Indian Names.—Punarnava, Pungali (Bomb.).

Habitat.—Collected from Mahboobnagar.

Flowering season.—Dec., but it is in flower more or less throughout the year.

XLIX. AMARANTACEAE.

153. **Alternanthera echinata** Sm., in Rees, Cycl. Suppl. n. 10.

Habitat.—Common at Adigmet.

Flowering season.—Aug.-Jan.

L. POLYGONACEAE.

154. **Polygonum glabrum** Willd. Sp. Pl. ii (1799), 447; H.F.B.I., v, 34; Dalz. & Gibs., 214; Wt. Ic. t., 1799; Cooke F. Pres. Bomb., ii, Pt. iii, 514; Watt Dict. Econ. Prod. I., vi, Pt. i, 318; Kirt. Ind. Med. Plts., iii, 2098.

Indian Names.—Sheral, Raktarohida (Bomb.); Atalari (Tam.).

Habitat.—Found in ditches and wet places.

Flowering season.—Oct.-Feb.

Uses.—Leaves are medicinal.

155. **Polygonum tomentosum** Willd. Sp. Pl., ii (1799), 447; H.F.B.I., v, 30; Trim. F. Ceyl., iii, 411; Cooke F. Pres. Bomb., ii, Pt. iii, 515; Gam. F. Pres. Mad., vii, No. vii, 1189.

Habitat.—Common in wet places at Adigmet and elsewhere.

Flowering season.—Dec.-April.

156. **Muehlenbeckia platyclados** Meissn. in Bot. Zeit., xxiii (1865), 313; Cooke F. Pres. Bomb., ii, Pt. iii, 519; Gam. F. Pres. Mad., vii, No. vii, 1192.

Syn.—*Coccoloba platyclada* F. Muell. in Bot. Mag., xix (1863), t. 5382.

Habitat.—A native of Solomon Islands, often grown in gardens.

LI. PIPERACEAE.

157. **Piper nigrum** Linn. (Pepper) Sp. Pl. (1753), 28; H.F.B.I., v, 90; Dalz. & Gibs. Suppl., 84; Cooke F. Pres. Bomb., ii, Pt. iii, 526; Gam. F. Pres. Mad., vii, No. vii, 1206; Wt. Ic. t. 1935; Watt Dict. Econ. Prod. I., vi, Pt. i, 260.

Syn.—*Piper trioicum* Roxb. Fl. Ind. i (1832), 151.

Indian Names.—Kalimirch (Urdu); Golmirch, Kalimirch, Safedmirch (Hindi); Filfilesiyah (Pers.); Filfiluswud (Arab.); Marichamu (Tel.); Kalimirch (Mar.); Agutlam (Tam.); Kalimari, Kalimirich (Guj.); Menasu (Canarese); Golmorich (Beng.); Golmirich (Punjab).

Habitat.—Cultivated. Kindly presented to the Botanic Garden, Osmania University by Mr. Chacko of Cocanada.

Uses.—Economic and medicinal.

LII. EUPHORBIACEAE.

158. **Euphorbia pycnostegia** Boiss. Cent. Euphorb. (1860), 9; H.F.B.I., v, 246; Gam. F. Pres. Mad., vii, 1274; Cooke F. Pres. Bomb., ii, Pt. iii, 565.

Habitat.—Collected from Mulug.

Flowering season.—Dec.

159. **Euphorbia Clarkeana** Hook. f. F. B. I. (1887), 253; Cooke F. Pres. Bomb., ii, Pt. iii, 570.

Habitat.—Collected from Adigmet.

160. **Euphorbia tortilis** Rottler, ex Wight Ic. t. 898; H.F.B.I., v, 256; Gam. F. Pres. Mad., vii, No. vii, 1277.

Indian Name.—Pedda jamadu (Tel.).

Habitat.—Common in dry situations in some of the districts.

161. **Bridelia montana** Willd. Sp. Pl. iv (1805), 978; Kirt. Ind. Med. Plts., iii, 2214.

Indian Names.—Geia, Khaja (Hindi); Asana (Mar.); Gundu bigalu, Pantangi (Tel.); Vengaimaram (Tam.); Asano (Guj.).

Habitat.—Common in the hilly tracts in Mulug.

Flowering season.—Sept.-Nov.

Uses.—Medicinal.

162. **Phyllanthus simplex** Retz. Obs. Bot. fasc. v (1789), 29; H.F.B.I., v, 295; Dalz. & Gibs., 234; Cooke F. Pres. Bomb., ii, Pt. iii, 587; Kirt. Ind. Med. Plts., iii, 2224.

Indian Names.—Bhuiavali (Mar.); Uchchiyusirika (Tel.); Motibhonyaanmali (Guj.).

Habitat.—Common at Adigmet.

Flowering season.—Aug.-Nov.

Uses.—Medicinal.

163. **Phyllanthus nanus** Hook. f.; H.F.B.I., v, 298.

Habitat.—Collected from the vicinity of Adigmet.

164. **Phyllanthus debilis** Herb. Ham. ex Wall. Cat. (1828) sub n. 7892; H.F.B.I., v, 299; Cooke F. Pres. Bomb., ii, Pt. iii, 588.

Habitat.—Collected from Adigmet.

165. **Pedilanthus tithymaloides** Poit., Gam. F. Pres. Mad., vii, No. vii, 1346.

Habitat.—An American shrub cultivated in gardens.

166. **Plecosperrum spinosum** Trecul, in Ann. Sc. Nat. ser. iii, Vol. viii (1847), 124; H.F.B.I., v, 491; Wt. Ic. t. 1963; Cooke F. Pres. Bomb., ii, Pt. iv, 642; Gam. F. Pres. Mad., Pt. viii, No. viii, 1352.

Indian Names.—Koriti (Tel.); Achingudi, Daiyal (Tam.); Bendaka (Canarese).

Habitat.—Cultivated.

Flowering season.—April-June.

LIII. URTICACEAE.

(MORACEAE).

167. **Ficus tomentosa** Roxb. Hort. Beng. (1814), 103; H.F.B.I., v, 501; Wt. Ic. t. 647; Cooke F. Pres. Bomb., ii, Pt. iv, 646.

Indian Names.—Jivi, Juvi (Tel.); Kallu-goli (Bomb.); Ichchi, Kal-ichchi (Tam.); Kal-al (Malayalam); Kallatti (Canarese).

Habitat.—A common tree in the hilly tracts in Mulug.

Flowering season.—April.

168. **Holoptelea integrifolia** Planch. in Ann. Sc. Nat. Ser. iii, Vol. x (1848), 266; H.F.B.I., v, 481; Dalz. & Gibs., 238; Wt. Ic. t. 1968; Cooke F. Pres. Bomb., ii, Pt. iv, 629.

Syn.—*Ulmus integrifolia* Roxb. Corom. Pl. I. (1795), 56, t. 78; Kirt. Ind. Med. Plts., iii, 2293.

Indian Names.—Dhamna, Kumba, Papri (Hindi); Kaladri, Tapsi (Canarese); Papara, Vavli (Mar.); Aval (Malayalam); Avali (Tam.); Nevili, Tapasi (Tel.); Chirabilva (Sans.).

Habitat.—Grown in gardens, doubtfully indigenous.

Uses.—Medicinal.

(URTICACEAE PROPER).

169. ***Pilea microphylla*** (Gun-powder or Artillery Plant). Liebm. in Vidensk. Skr. ser. v, Vol. ii (1851), 296; Cooke F. Pres. Bomb., ii, Pt. iv, 659; Gam. F. Pres. Mad., Pt. viii, No. viii, 1379.

Syn.—*Pilea mucosa* Lindl. Coll. Bot. (1821) t. 4; H.F.B.I., v, 551.

Habitat.—A native of S. America, extensively cultivated as a border herb.

An interesting feature about the pollen is that, when ripe, it is discharged in clouds from the anthers when the plant is slightly shaken.

170. ***Pellionia Daveauana*** N. E. Brown, in Gard. Chron. (1880), Pt. ii, 262; Cooke F. Pres. Bomb., ii, Pt. iv, 659.

Habitat.—A native of Cochin-China, grown in baskets as an ornamental plant, and also in rockeries.

Regarding the ejection of pollen the same remark applies to this plant as to *Pilea microphylla*.

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EXPLANATION OF PLATE.

Fig. 1.—Photograph of a moist forest near Salvoy in Mulug. In the foreground is a river—Dayyum Mudgo, in the background are lofty trees.

Fig. 2.—A panoramic view of a part of the Ajanta Hills where the forest is of the Monsoon type.

Fig. 3.—Photograph of a thicket of *Calamus Rotang* Linn. near the Ramappa tank in Mulug.